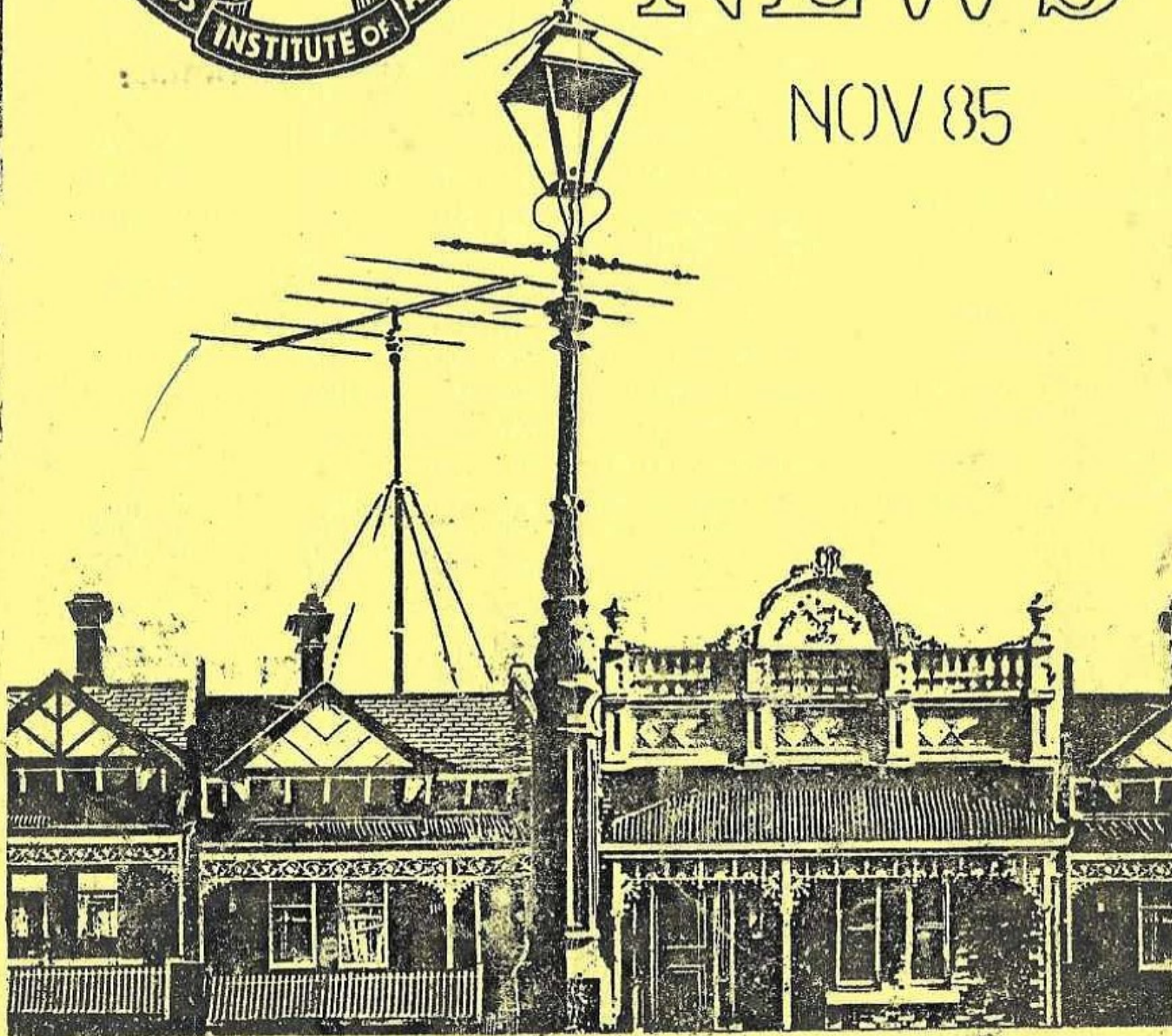


85/11 01



B·A·R·G NEWS

NOV 85



© Monthly Newsletter of the
Ballarat Amateur Radio Group

85/11 02

COMMITTEE

B.A.R.G. OFFICERS 1985-1986

			HOME	BUSINESS
President.	Lou Iaquinto.	VK3 DFI	49 2200	Ext.241 After 4.30
Vice President	Geoff Smith.	VK3 ADB	(32 1037) 394944:	
Secretary	Jim Wright.	VK3 CFB	32 7563	
Asst. Secretary	Dick Forrester.	VK3 VU	35 7663	39 1001
Treasurer	Harry Hekkema.	VK3 KGL	35 7563	39 1001
Technical Officers	Phil Seddon	VK3 AQM	31 5220	31 3166
	Ian Robinson.	VK3 BTX	32 4139	
	Maurie Batt.	VK3 XEX	42 2245	
	Dick Antosiewicz.	VK3 AEX	32 3273	31 1818
Q.S.L. Manager	Cliff Bilston.	VK3 PAF	35 8048	
Awards Manager	Maurie Batt.	VK3 XEX	42 2245	
Publicity Officer	John Hazledine.	VK3 CFH	39 1971	
Education Officer	Bob Terrill.	VK3 BNC	39 5317	39 1001
Property Officer	Dick Antosiewicz.	VK3 AEX	32 3273	31 1818
Newsletter Committee.	Dick Forrester.	VK3 VU	35 7663	39 1001
	Fred Quick.	VK3 NIH	32 3216	32 6455
	Ron Watkins.	VK3 XOA	35 6017	32 1447
	Henry Horitz.	VK3 DXC	35 5130	
Net Co-ordinator	Fred Quick.	VK3 NIH	32 3216	32 6455
V.I.C.E.N. Committee	Dick Antosiewicz.	VK3 AEX	32 3272	31 1818
	Geoff Smith.	VK3 ADB	32 1037	
	Dick Forrester.	VK3 VU	35 7663	39 1001
	Neil Davidson.	VK3 KQQ	35 9812	
Committee	Peter Kenyon.	L30037		
	Evonne Wroe.		42 4376	

B.A.R.G. Meets the LAST FRIDAY of every month at the
BALLARAT EDUCATION CENTRE, Hopetoun Street. at 7.30 p.m.
 All Correspondence to P.O. Box 216E Ballarat East. 3350 Vic.

Awards Manager, VK3-XEX, R.S.D. Rokewood Junction. Vic.

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MINUTES OF THE MEETING

3

Minutes of General Meeting 25th October 1985.

The meeting was opened by President Lou DFI at 7.55pm.

Apologies. CFH, NLR, CUH, NIZ, WN, SE, Evonne.

Minutes as printed and circulated were confirmed. XEX/AFH.

Treasurers Report General a/c \$347.37 VS&L a/c \$1131.00

Correspondence in VK3 ZWY re use of repeaters for RTTY.
WICEN asking permission to use RBA for Bike Ride.

Correspondence out Ansett Thanks for visit to Simulator Section.
VK3 ZWY re repeater use. Voice only.
WICEN.O.K. to use RBA for Great Victorian Bike Ride.

Awards Manager Maurie had requests for 1 Goldrush, 1 Western Zone and 1 DX Widows award. \$50.00 to Club funds from DX widows awards. Thanks Maurie.

Education Bob BNC reported that the Novice Class is still going well, unfortunately 2 students have dropped out but Bob is hoping for at least 8 new operators in the near future.

Newsletter Ron apologised for the late delivery of News Letter, this was caused by a breakdown of printing facilities at the education centre.

Repeater RBS Dick VU spoke on the report in News Letter, Heliac co-ax has been obtained from the Western Zone (Courtesy WIA) and it was moved DOK seconded NFZ That repeater committee be authorised to spend up to \$300 to complete the project. This motion was carried.

QSL Manager Cliff reported 224 cards in and 229 out.

Ladies Auxiliary June Forrester was in attendance and gave a report on Ladies plans for the Hamvention, also on the Xmas festivities planned.

General Business. President Lou reported on Hamvention arrangements and it looks as if another successful Hamvention is assured.

Perpetual Trophy Maurie XEX and Geoff ADB came up with an elegant trophy to be presented for the greatest aggregate of points in the Hamvention contests.

Next Meeting. Ian AXH assisted by Greg DIE will be bringing along some test gear and will test members rigs for H.F. or V.H.F. Deviation, so bring your Rig along and get it checked out for free.

There being no further business the meeting closed at 8.30pm.

B.A.R.G. General Meeting Friday November 29th. 7.30pm. Education Centre.

No meeting in December.

Committee meeting Wed January 22nd. 7.30pm. Education Centre.

General meeting Friday January 31st. 7.30pm. Education Centre.

85/11 04

JOTA.

The JOTA weekend is over! I think it went OK but, since this was my first attempt, I have nothing to compare it with.

About six weeks prior to JOTA, the District Commissioner for the Guides approached me and asked if I would take a group of about twenty five Guides. George VK3DOK gave me some advice and I read a few articles in AR as well.

So, in the week preceding JOTA, I spoke to the 25 girls in Beaufort. I explained call signs, licensing, my station, logging, and the hobby in general. I brought along two PTT microphones and showed the girls how to use them. Later, each girl learned to spell her name in phonetics. I had brought QSL cards but there wasn't enough time to show them because the girls asked so many questions.

A group of ten arrived Saturday afternoon and five at a time operated. I tried larger groups on Sunday, but it's easier to work with just five at a time. I thought it was important for the Guide leaders to talk to other leaders. The girls do not feel left out because the leaders talk about them and their achievements. Also, when new girls join next year, the leader will be able to promote JOTA because she played an active role this year.

All of the Guides learned to send SOS on the keyer. Some got it right the first time while a few needed practice.

In discussing the Communications Badge, I demonstrated some cw and talked about the code practice oscillator they are required to build. I showed them the soldering station and described how components are soldered.

We spoke to other Guides with the exception of one QSO with Scouts. Each girl had several chances to chat, mostly about her hobbies. From my point of view, I think the girls had a lot of fun and learned a great deal about amateur radio.

Yes, I'll do it again next October.

Maggie VK3NQQ

DX FOR SURE

Our most welcome and growing group of novices often express interest in aeriels. The following examples are easy to make and I have used them all with success.

Firstly VERTICALS.

I mentioned at a Club meeting the use of the metal clothes hoist for TEN meters. Very efficient as the arms approximate quarter wave radials and the supporting stays droop conveniently to give an effective 50 ohm match to co-ax cable.

For simplicity a piece of 3 core cable can be taped to a piece of stick lashed to the top of the centre post. Why 3 core? Only to build up the diameter to broaden the band width.... use what you have.

Make a good earth connection to the top of the post. Usually there are some screws holding a top cap. Loosen one and earth under it.

I prefer to use a VHF socket at this point soldered to the aerial and to a short earth wire to which I can attach the plug on the end of the co-ax. There are certain advantages, one of which may occur on washing day. For fun you can wind it up and down. C'ant say I've noticed much difference but the good book says I should. Ho hum.

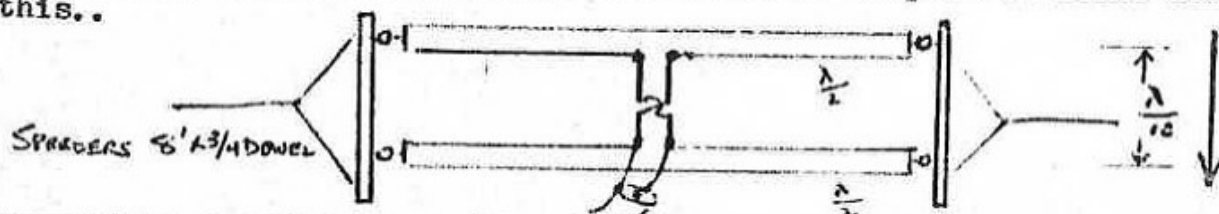
This could be worth a try with a FIFTEEN radiator, it will only take ten minutes to find out, and I hav'nt.

For TWENTY I've frequently used wire (yes three core, what else) taped to a bush pole. One beaty was lashed to the end post of an old wire type clothes line....sneaky ..one radial for free. Run out three more a quarter wave each and feed it with 50 ohms, they always work DX. IN fact a good all round aerial. How witty will he get! ?

BUT.. HOW ABOUT 4 to 5 DB of GAIN. ?

Now that's not to be sneezed at by anyone.... and it is simple to get. However to make you work for it i'm going to bore you with HISTORY!

Once upon a time ... in fact very many times ... this curious old ham would spend lots of good swimming time of his holidays playing around with an aerial called a 2L Special. A flat top made of 300 ohm ribbon hung up between a couple of trees and with eight foot spreaders each end.... which allowed it to gracefully turn right over in the middle of a QSO. Please note .. it is/was directional. In plan it looks like this..



Recently I decided to really make it go so invested in some 300 ohm open line (whew) and made a de-luxe job of it. I should add that it had to be fed with 50 ohm co-ax which is a handicap about equivalent to carrying two bricks around all day. I know someone will be rude. Now there are dozens of articles written about this aerial and they give the most amazing variety of element lengths but are fixed on the spacing at around one tenth wavelength, about 7 foot nine ins.

The phasing line is generally ribbon also (300 ohm). The aim is for a 135 degree angle for ~~max~~ uni directional radiation.

Acting on advice from a learned 2L I replaced this with a piece of

6. 85/11 06

thin speaker twin cable said to be about 150 ohms and 7'9" long. After progressively adding three short pieces of open line to the driven element I finally got it resonant on 14150 kc as required. This made the driver 32'9", interestingly the same length of the original reflector. Impedance 150 ohms, SWR 3:1. Not good! However I worked all continents at about 55 and it was decidedly directional, that is it had strong front to back ratio. Now all this was being fed RF from an ATLAS which hates anything but a 50 ohm load and it just was not seeing it and was probably putting out about 30 watts instead of it's happy 200, so a certain amount of dandruff was scratched, and I'll have anyone who says I hav'nt enough hair left to scratch. Inspiration struck and passed through the wire door for the two hundredth time armed with a pair of cutters! Dropping the contraption to the ground with practised ease, then de-bull anting myself as they love the tree at that end, I quickly snipped off the phasing line.

Pause now and let this sink in because we now have a completely different aerial system which could, loosely, be described as a Two Element Yagi. Loosely, because 50 ohms into a folded dipole sounds impossible..... Well there are some variables ar'nt there. e.g height above ground, element diameter, and length and spacing of the parasitic element. Of these the height was a minus as the aerial is at only about 25' up, but the diameter (of open line?) and the spacing are pluses. As regards length, the driver and reflector are equal, whatever that means. I later joined up the open circuit in the reflector but it had nil effect. So back inside for another test run and here it is...

	Freq.	Impedance	SWR	PA Amps.
	14000	36 ohm	2.2:1	12
	14100	38	1.6:1	12
Required X	14150	48	1.2:1	10
Best	14185	60	1:1	10
	14250	105	1.3:1	10
	14300	140	1.6:1	8

Very, very heartening!

On air. Great. S9 plus from G and VE BUT now BI DIRECTIONAL.

Bi directional, how strange. Well you all know the old saying that when all else fails read the instructions..... and very interesting they were too. ARRL ANTENNA BOOK Chap.4 page 156, the two element beam.... self resonant at .1 AND .25 spacing, bi directional, four to five DB gain !!! Is'nt science wonderful.

Conclusion. I cant see why this wouldnt work with ordinary punched ribbon, but of course ordinary wire is the alternative, with some bits of ball point pen bodies for spacers.

4 DB for PEANUTS! Why not try it for 10, 15, 20 and even 40.

85/11 07

HELP SAVE AMATEUR RADIO LANGUAGE

AMATEUR RADIO HAS A LONG ESTABLISHED LANGUAGE OF ITS OWN WHICH ADDS TO THE HOBBY'S CHARACTER AND UNIQUENESS.

BUT THE LANGUAGE HAS UNFORTUNATELY BEEN OVERLOOKED BY SOME NEWCOMERS; PARTICULARLY IN THE LAST DECADE.

A FEW OLD HANDS ARE ALSO TO BLAME FOR NOT USING THE LANGUAGE CORRECTLY OR FAILING TO ENCOURAGE OTHERS TO SPEAK IT AS IT SHOULD BE SPOKEN.

THE VOCABULARY OF SOME RADIO AMATEURS INCLUDES PHRASES LIKE "COME BACK" -- EVERYTIME THIS IS USED ON A REPEATER YOU CAN BE SURE MANY LISTENERS MUMBLE TO THEMSELVES "COME BACK; FROM WHERE."

AND THE WORDS "COME ON" REALLY MAKES SOME PEOPLE'S BLOOD BOIL.

ANOTHER PHRASE GAINING POPULARITY IS -- "'I'VE GOT TO GET OUT OF HERE" -- WHEN IN FACT WHAT'S MEANT IS "I WANT TO GO CLEAR."

"WHAT'S YOUR HANDLE OLD MAN" HAS BEEN REPLACED BY SOME PEOPLE WHO SAY -- "WHAT'S THE NAME THAT WAY."

I'M SURE IF YOU THINK ABOUT IT YOU'LL HAVE HEARD OTHER EXAMPLES OF NON-AMATEUR RADIO PHRASES ON AIR.

THE Q-CODE IS ALSO BEING ABUSED; FOR EXAMPLE: "'I'M GOING QRT FOR A SECOND" WHEN IN FACT THE RADIO AMATEUR PLANS TO GO QRX.

"WHAT IS YOU QTH" -- NEVER "WHAT'S YOUR 10-20 THERE" -- BUT LISTEN LONG ENOUGH AND YOU'LL HEAR THE 10-CODE ON AMATEUR BANDS.

IT'S ENOUGH TO MAKE ANY "OLD MAN" OR "YL" TAKE THE TOP OF A "GASEOUS 807".

73 -- NEVER 73'S -- DE UK3PC.

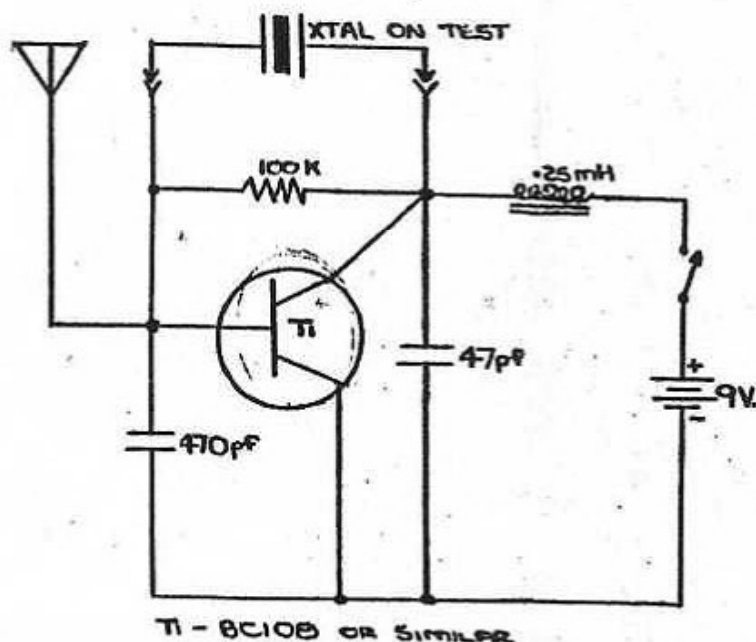
85/11 08 Test Gecir

REPRINTED FROM "THE PROPAGATOR"

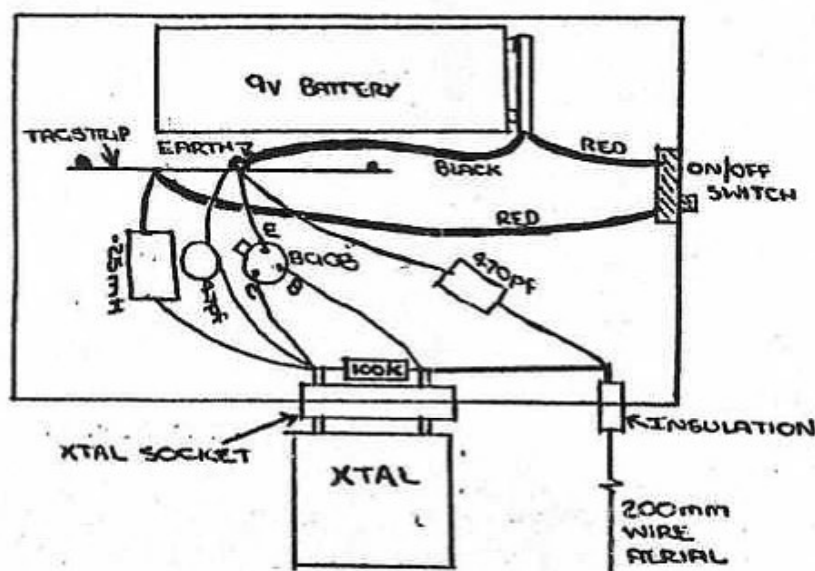
This device is an almost indispensable piece of gear in the shack and has a huge range of uses. It has been used as a morse oscillator, crystal checker, and for it's original use as a tune-up device for changing the frequency of disposals transceivers.

The original circuit appeared many years ago in Electronics Australia when it was still called Radio, TV and Hobbies. (no new fangled computers around then)

The tester can be built into a Strepsils tin, or what ever case you may have on hand. The transistor can be almost any NPN silicon transistor in the junkbox. The circuit can be made using almost any of the usual techniques including Veroboard, tagstrip, PC board or point to point wiring. No special care was found to be necessary but, it might be wise to keep the wiring as short as possible.



T1 - BC108 OR SIMILAR



This device is especially useful in tuning up a VHF transceiver. Proceed as follows; (1) Remove the xmit crystal & place in the oscillator & switch on. (2) Initially couple the output to the receiver input & tune each stage. (3) As the stages get closer to the correct frequency continually move the oscillator away from the input until no further improvement can be achieved.

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B.A.R.G. LADIES COMMITTEE.

The President of the Ladies Committee wishes to thank the Ladies Committee and everyone concerned for their helpful support given. Leading up to and on the weekend of the convention.

Thankyou,
President; Yvonne Wroe.

On a bright sunny Sunday a gathering of Amateurs was held. Coming from near and far. With them their yl's and xyl's. Watching not with wonder, no, probably more with, "Here we go again!"

Still onward they go, giving their support and even joining in on events. One event especially, is given all. Yes. One where our frustrations can be let loose. The RIG throwing contest. Approximately 8-10 ladies competed. An Azalea was awarded to the winner.

B.B.Q. Lunch proved very popular as No's were up this year. The Ladies stall sold out. VK3 QC won the Food Hamper.

All in all a very enjoyable and successful day.

J.F. Secretary.

CHRISTMAS IS JUST AROUND THE CORNERDON'T FORGETCHRISTMAS DINNER.

12th December, 1985.

WESTERN HOTEL.

7p.m.

A La Carte Menu.

No's attending to:- Yvonne Wroe 424376
:- June Forrester 357663
by 29th November, 1985.

CHRISTMAS TREE.

15th December, 1985.

BUNINYONG GARDENS.

\$2.00 per family.

SANTA will be there bearing gifts.

Lollies, Icecream, Soft Drinks.

B.B.Q. Lunch will be provided.

ADULTS B.Y.O. Refreshments.



Alas, I have received very few registration forms back. Which were in the last NEWSLETTER.

Please give our article your undivided ATTENTION!!

CHRISTMAS TREE

NAME:-

Number of Adults

Number of CHILDREN

\$2.00 per family.

SEND TO Ladies Committee.

AGES

SEX

P.O. BOX 216E. BALLARAT. 3350
by 29th NOVEMBER, 1985.

J.F. Secretary.

Education

EDUCATION REPORT

By the time this gets to you the latest novice course will have been completed and most of the students will have sat for the N.A.O.C.P. Starting with 19 students and 16 completing was an indication of interest within the community in our hobby. Facilities at BRACE are very good and our thanks to the staff there - Dorothy & Ivan. I would like to thank those club members who took students "under their wings" and assisted with the practical side of Amateur Radio. The number of lecturers on this course was deliberately reduced to provide more continuity and an even flow of material. This seems to have been effective. My thanks also to the lecturing staff who assisted me namely, Dick Forrester, Ian McDonald & Brian Stares for their time and efforts so freely given. To the students who have embarked on Amateur Radio, we hope you will be successful in gaining your certificates and more importantly enjoy the great hobby and its world wide friendships.

73's Bob VK3BNC

(WOULD LIKE TO HEAR FROM THOSE THAT ARE SUCCESSFUL, SO THEIR CALLSIGNS CAN BE PRINTED, AND WE KNOW WHO WE ARE TALKING TO.) Ed.

2m REPEATER CHANNEL NUMBERS AND FREQUENCIES

Repeater Ch. No.		Repeater Input		Repeater Output		Repeater Ch. No.		Repeater Input		Repeater Output	
New	Old	Frequency MHz	Channel No.	Frequency MHz	Channel No.	New	Old	Frequency MHz	Channel No.	Frequency MHz	Channel No.
0625	—	146.025	0025	146.025	0625	7025	—	147.025	7025	147.025	7025
0650	41	146.050	0050	146.050	0650	7050	75	147.050	7050	147.050	7050
0675	—	146.075	0075	146.075	0675	7075	—	147.075	7075	147.075	7075
0700	42	146.100	0100	146.100	0700	7100	74	147.100	7100	147.100	7100
0725	—	146.125	0125	146.125	0725	7125	—	147.125	7125	147.125	7125
0750	43	146.150	0150	146.150	0750	7150	76	147.150	7150	147.150	7150
0775	—	146.175	0175	146.175	0775	7175	—	147.175	7175	147.175	7175
0800	44	146.200	0200	146.200	0800	7200	78	147.200	7200	147.200	7200
0825	—	146.225	0225	146.225	0825	7225	—	147.225	7225	147.225	7225
0850	45	146.250	0250	146.250	0850	7250	77	147.250	7250	147.250	7250
0875	—	146.275	0275	146.275	0875	7275	—	147.275	7275	147.275	7275
0900	46	146.300	0300	146.300	0900	7300	78	147.300	7300	147.300	7300
0925	—	146.325	0325	146.325	0925	7325	—	147.325	7325	147.325	7325
0950	47	146.350	0350	146.350	0950	7350	78	147.350	7350	147.350	7350
0975	—	146.375	0375	146.375	0975	7375	—	147.375	7375	147.375	7375
7000	48	146.400	0400	147.000	7000	—	—	—	—	—	—

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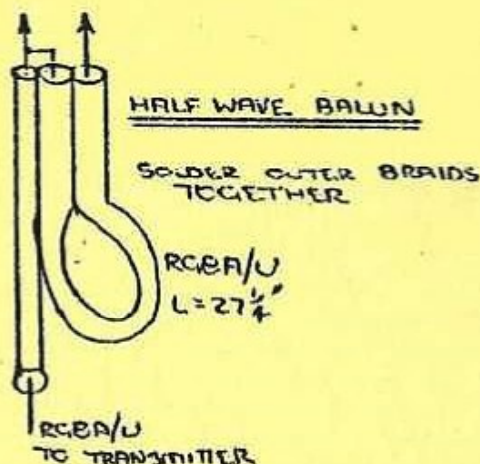
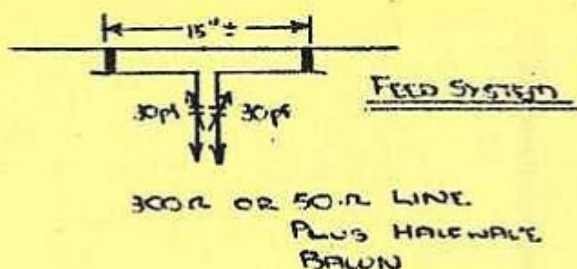
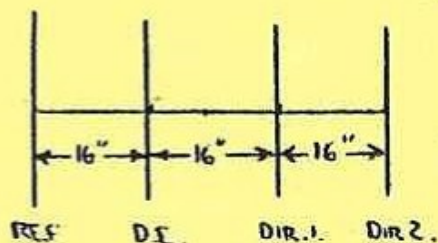
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COAX, Rotator and L.T. Cable, Plugs and connectors, Transistors and IC's, Aerials and assorted parts always in stock. Call for prices and information.

EVERYTHING FROM A TO Z IN ELECTRONICS

FOUR ELE. 2m. YAGI.

146-148 MHz.



REFLECTOR 40.2"
DRIVEN ELE 38.3"
DIRECTOR 1 36.4"
DIRECTOR 2 36"

BOOM - 1" TUBE - OR SQUARE
ELEMENTS - 1/4" TUBE.

73 RON VK3XOF